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## Regulation of autophagy by mTOR and amino acids

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# Curriculum vitae

## Curriculum vitae

Stefanie Ruf was born on January 10, 1986 in Ulm, Germany. After her graduation from Highschool in 2005 she studied Biochemistry at the University of Ulm. During her Bachelor thesis she worked at the Institute of Molecular Botany under the supervision of Prof. Dr. A. Marchfelder and analyzed ribonucleases in *Haloferax volcanii*. In 2009 she obtained her Bachelor of Science degree and continued her studies at the University of Ulm. In her Master thesis at the Institute of Pharmacology of Natural Products & Clinical Pharmacology (Prof. Dr. T. Simmet) she characterized the interaction of the sesquiterpenolactone parthenolide with NF- $\kappa$ B. After obtaining her Master of Science degree in 2010, she joined the research group of Prof. Dr. Kathrin Thedieck, Functional Proteomics of Metabolic Signaling within the Laboratory for Bioinformatics and Molecular Genetics, (Prof. Dr. R. Baumeister) where she started her PhD on the regulation of autophagy by mTOR and amino acids. In order to perform a genetic screen in the model organism *C. elegans* she spent 5 months in 2011 as a visiting PhD student at the Sanford Burnham Medical Research Institute in the laboratory of Prof. Dr. Malene Hansen in La Jolla, California. In 2013 she received a Doctoral fellowship of the Research Training Group GRK1104 and in 2014 she joined her supervisor Prof. Dr. Kathrin Thedieck, Laboratory for Metabolic Signaling, Department of Pediatrics, University Medical Center Groningen (UMCG), The Netherlands.

## Publications

**Stefanie Ruf**, Sara Gelino, Miriam Langelaar-Makkinje, Deepti Wilkinson, Alexander Martin Heberle, Carolin Gerbeth, Jennifer Jasmin Schwarz, Birgit Holzwarth, Bettina Warscheid, Chris Meisinger, Marcel A. T. M. van Vugt, Ralf Baumeister, Malene Hansen, and Kathrin Thedieck: "Polo-like kinase 1 inhibits mTOR complex 1 and promotes autophagy". Under revision at "Autophagy".

Piero Dalle Pezze\*, **Stefanie Ruf\***, Annika G. Sonntag\*, Miriam Langelaar-Makkinje, Philip Hall, Regine Tölle, Jennifer J. Schwarz, Peter Horvatovich, Erik Fäßler, Sascha Schäuble, Udo Hahn, Daryl P. Shanley, and Kathrin Thedieck: Systems modelling of the mTOR network identifies multiple amino acid-dependent inputs via the two mTOR complexes, IRS-PI3K, and AMPK.

To be submitted to "PNAS".

\*These authors contributed equally to this work

Antje Thien, Mirja Tamara Prentzell, Birgit Holzwarth, Kathrin Kläsener, Ineke Kuper, Christopher Böhlke, Annika G. Sonntag, **Stefanie Ruf**, Lars März, Roland Nitschke, Sushma-Nagaraja Grellscheid, Michael Reth, Gerd Walz, Ralf Baumeister, Elke Neumann-Häfelin, and Kathrin Thedieck: "TSC1 Activates TGF- $\beta$ -Smad2/3 Signaling in Growth Arrest and Epithelial-to-Mesenchymal Transition". *Developmental Cell* 2015

Kathrin Thedieck, Birgit Holzwarth, Mirja Tamara Prentzell, Christopher Böhlke, Kathrin Kläsener, **Stefanie Ruf**, Annika Gwendolin Sonntag, Lars März, Sushma-Nagaraja Grellscheid, Elisabeth Kremmer, Roland Nitschke, E. Wolfgang Kühn, Johan W. Jonker, Albert K. Groen, Michael Reth, Michael N. Hall, and Ralf Baumeister: "Inhibition of mTORC1 by Astrin and Stress Granules Prevents Apoptosis in Cancer Cells". *Cell* 2013

